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Notice of Allowability	Application No.	Applicant(s)	
	09/740,661	ZHANG ET AL.	
	Examiner	Art Unit	
	Haresh Patel	2154	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to 8/3/2004.			
2. The allowed claim(s) is/are <u>1-34</u> .			
3. The drawings filed on 18 December 2000 and 08 March 2004 are accepted by the Examiner.			
<ul> <li>4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No.</li> <li>Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	on's Patent Drawing Review(PTO- s Amendment / Comment or in the C	Office action of	,
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
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Attachment(s)  1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTC	)-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6.  Interview Summary	(PTO-413),	102)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 8), 7. 🔲 Examiner's Amendr		
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allov	wance
of Biological Material	9.		
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## **DETAILED ACTION**

1. Claims 1-34 are presented for examination. Claim 35 is cancelled.

## Allowable Subject Matter

- 2. Claims 1-34 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

All the claims are allowed for at least the following reason.

All the claims detailed a method and a computer readable medium for reducing a. stack memory resources in a computer system that executes concurrent threads to handle requests for user sessions over the network. A new thread programming technique that is highly scalable and comparatively simple to program and upgrade provides handling of a large number of user sessions. The invention permits a reduction in the stack memory allocated to a computer thread, which reduces the system penalty when large numbers of threads are used. Each segment of program code to be run on a thread, the program code for executing an active network session, is classified based upon the stack memory size required to execute any function call within the segment. The stack memory size allocated to the thread is preferably sufficient to handle the requirements of a first class of function calls. The computer thread utilizes a predetermined auxiliary stack to execute program code function calls requiring substantial stack memory size and reclaims the auxiliary stack when it is no longer necessary to execute the code of the segment. Segments of the program code of a class having function calls requiring substantial stack resources are wrapped in a wrapper that calls an auxiliary stack for executing the function

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call and in which the wrapper returns the auxiliary stack when the function call is completed. The auxiliary stack is a shared stack or a new stack from a pool of stacks. The prior art does not include teachings of each segment of a program code executed by a thread for handling an active network session that is classified based upon the stack memory size required to execute function call within the segment and to utilize a predetermined auxiliary stack to execute the program code function calls requiring substantial stack memory size and to reclaim the auxiliary stack when it is no longer necessary to execute the code of the segment. Therefore the claims are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Haresh Patel whose telephone number is 703-605-5234. The examiner can normally be reached on Monday, Tuesday, Thursday and Friday from 10:00 am to 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 703-305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Haresh Patel

September 24, 2004

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